

Creating Charts



Put the following information into a list.
Convert the information into a bar chart to see what 2000 Olympic team took home the most medals. Olympics statistics came from www.olympic.org (click on Olympic Games, Sydney 2000. On righthand side click on medals by country).

Note: To delete previous lists, press [2nd] [MEM]. To delete text from the list, press [4] for 4:Delete and then [3] for 3: List. Arrow down to the lists you want to delete and press [ENTER].

Engage

1. Refer to the *Exploring Probability Activity Card* for directions on how to enter data into a list
2. For this activity you will create four lists named Country (COUN), GOLD, Silver (SILVE), Bronze (BRONZ)
3. Use the data below to complete your table

Country	Gold	Silver	Bronze
Australia (AUS)	16	25	17
China (CHINA)	28	16	15
Germany (GER)	14	17	25
Russia (RUS)	32	27	17
United States (USA)	39	25	32

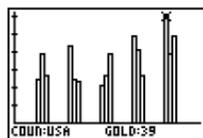
Continued on back

COUN c	GOLD	SILVE	4
AUS	16	25	
CHINA	28	16	
GER	14	17	
RUS	32	27	
USA	39	25	

COUN(G) =			

```
SUBPLOTS
1: Plot1.On
   (D) COUN GOLD Y 3
2: Plot2.Off
   L1 L2
3: Plot3.Off
   L1 L2
4: PlotsOff
```

```
Plot1 Off
Type: L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24 L25 L26 L27 L28 L29 L30 L31 L32 L33 L34 L35 L36 L37 L38 L39 L40 L41 L42 L43 L44 L45 L46 L47 L48 L49 L50 L51 L52 L53 L54 L55 L56 L57 L58 L59 L60 L61 L62 L63 L64 L65 L66 L67 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83 L84 L85 L86 L87 L88 L89 L90 L91 L92 L93 L94 L95 L96 L97 L98 L99 L100
CategList: COUN
DataList1: GOLD
DataList2: SILVE
DataList3: BRONZ
Ver: Hor 1 2
```



Creating Charts



Explore

1. Make sure that equations are empty and plots are off
 - A. To clear equations from the $\boxed{Y=}$ menu, press $\boxed{Y=}$. Then highlight the first variable or constant in the expression and press clear
 - B. To turn plots off, press $\boxed{2nd}$ $\boxed{[PLOT]}$, select the plots that are ON by highlighting the number, and then press \boxed{ENTER} , $\boxed{\blacktriangleright}$ to Off and \boxed{ENTER}
2. Press $\boxed{2nd}$ $\boxed{[PLOT]}$
3. Highlight Plot 1 and press \boxed{ENTER}
4. Press \boxed{ENTER} to highlight ON
5. Use the arrow keys to move the cursor over to the bar graph $\boxed{\bar{\square}}$ and press \boxed{ENTER}
6. For CategList, choose COUN. To get this list, press $\boxed{2nd}$ $\boxed{[STAT]}$, use the arrow to move down to the word, and press \boxed{ENTER}
7. Do the same for Datalist, but this time select Gold for list 1, Silver for list 2, and Bronze for list 3.
8. Press \boxed{ENTER} to select Vert, and using the arrow keys, highlight 3 and press \boxed{ENTER}

Extend

1. Press \boxed{GRAPH} to see the bar graph
2. Press \boxed{TRACE} and use the arrow keys to scroll through the data
3. Move the blinking cursor along the data to find who earned the most medals (notice the key at the bottom of the screen)
4. How can you use the graph to determine the country that won the most silver medals?